

UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Offic

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APPLICATION NO.	FILING DATE	FIRST NAMED	INVENTOR	<u>.</u>	ATTORNEY DOCKET NO.
)8/807,737 [.]	02/27/97	OHTANI		Н	0756-1638
-		MM91/1219	\neg	EXAMINER	
SIXBEY FRIEDMAN LEEDOM & FERGUSON				PERT, E	
2010 CORPORA	TE RIDGE			ART UNIT	PAPER NUMBER
BUITE 600 ICLEAN VA 22	102			2813	
				DATE MAILED:	: 12/19/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

· -	Application No.	Applicant(s)					
Office Action Summary	08/807,737	OHTANI ET AL.					
·	Examiner	Art Unit					
	Evan T. Pert	2813					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
1)⊠ Responsive to communication(s) filed on <u>20 C</u>	ctober 2000 .						
	s action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>19-83</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6) Claim(s) is/are rejected.							
7) Claim(s) is/are objected to.							
8)⊠ Claims 19-83 are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are objected to by the Examiner.							
11) The proposed drawing correction filed on is: a) approved b) disapproved.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. § 119	arrinici.						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d). a) All b) Some * c) None of:							
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2. Certified copies of the priority documents have been received in Application No							
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. & 119(e).							
Attachment(s)							
15) Notice of References Cited (PTO-892) 16) Notice of Draftsperson's Patent Drawing Review (PTO-948) 17) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	19) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)					

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DETAILED ACTION

Election/Restrictions

1. This application contains claims directed to the following patentably distinct species of the claimed invention: Methods of making a semiconductor device.

<u>Species I</u> [Claims 19-28, 40-41, 44-45 and 78-79]

Using a lamp anneal to improve silicon film crystal quality using special heating and cooling rates.

<u>Species II</u> [Claims 29-39, 42-43, 46-47, 66-68, 80 and 82]

Heating a silicon film in a special way to make sure the silicon film does not take on a (111) crystal orientation.

<u>Species III</u> [Claims 60-62, 72-74, 81 and 83]

Disposing a catalyst metal on a silicon dioxide "wetting layer" to improve crystallization.

<u>Species IV</u> [Claims 48-59, 63-65, 69-71 and 75-77]

Adding a particular amount of one of hydrogen and oxygen to a silicon nitride under-film to get a ratio of silicon:nitrogen as being from 1.3 to 1.5, such that the semiconductor device is improved.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, **NONE** of the claims are generic.

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- 2. Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.
- 3. Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case.

In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

4. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

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5. Applicant is reminded that upon the cancellation of claims to a non-elected

invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one

or more of the currently named inventors is no longer an inventor of at least one claim

remaining in the application. Any amendment of inventorship must be accompanied by

a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Evan T. Pert whose telephone number is 703-306-5689.

The examiner can normally be reached on M-F (7:00-3:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Charles Bowers can be reached on 703-308-2417. The fax phone numbers

for the organization where this application or proceeding is assigned are 703-308-7722

for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-308-

0956.

ETP

December 14, 2000

Charles Bowers

Supervisory Patent Examiner

Technology Center 2800